

## Abstract

Disclosed is a method for making a bioreactor comprising a foreign target gene, special selectable markers and Dunaliella Salina as host. It is prepared by the genetic transformation techniques that include introducing a foreign target gene into the cells of Dunaliella Salina and screening the transformed cells of Dunaliella Salina. The bioreactor of the present invention can be used as a safe and cheap production system for proteins of pharmaceutical interest including vaccines, especially oral products, in a large scale, because the cells of Dunaliella Salina are easy of genetic manipulation in preparation of the bioreactor, nontoxic and edible for humans and animals, and harmless to the environment.

205340 " 544569